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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/881,784	06/18/2001	Hiroshi Itoh	010746	1612
38834 75	90 03/09/2005		EXAMINER	
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			BRINICH, STEPHEN M	
SUITE 700	1250 CONNECTICUT AVENUE, NW SUITE 700		ART UNIT	PAPER NUMBER
WASHINGTON, DC 20036			2624	

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Antique Commence	09/881,784	ITOH, HIROSHI			
Office Action Summary	Examiner	Art Unit			
	Stephen M Brinich	2624			
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPORTHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommendation of the period for reply specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	:				
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under					
Disposition of Claims					
4) ☐ Claim(s) 1-8 is/are pending in the application 4a) Of the above claim(s) is/are withdres 5) ☐ Claim(s) 7 and 8 is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the	•	` '			
Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E	• • • • • • • • • • • • • • • • • • • •	•			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 8/27/01. 	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)			

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DETAILED ACTION

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Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 3-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 3, lines 2-3 and claim 4, line 5, the phrase "operates pixel signals" is unclear as to what operation is performed.

In claim 6, lines 7-8, the term "fault pixel detecting circuit" lacks proper antecedent basis.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United

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States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-2 are rejected under 35 U.S.C. 102(e) as being anticipated by Takayama et al.

Re claims 1-2, Takayama et al discloses (column 3, lines 1-28) a color image processing arrangement in which pixels are provided with a plurality of respective color filters (R, G, B). Defective pixels are detected by correlating a target pixel value with the values of adjacent pixels having the same color filter as the target pixel, and then pixel signals corresponding to the defective pixels are corrected.

Allowable Subject Matter

- 5. Claims 3-6, insofar as they are understood, would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 6. Claims 7-8 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter:

Re claims 3-4 & 7 (and dependent claims 4-5 & 8), the art of record does not teach or suggest the recited operations upon sets of non-identical filter colored pixels in conjunction with

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the recited detection and correction of defective pixels via correlating a target pixel value with the values of adjacent pixels having the same color filter as the target pixel.

Re claim 6, the art of record does not teach or suggest the recited processing of predetermined color image signals via a line memory in conjunction with the recited use of the line memory for detection and correction of defective pixels via correlating a target pixel value with the values of adjacent pixels having the same color filter as the target pixel.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Katoh et al, Watanabe et al, Matsukawa, and Wang disclose additional examples of defective pixel detection and correction in image sensing devices in which pixels are provided with respective color filters.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Brinich at 703-305-4390. The examiner can normally be reached on weekdays 7:00-4:30, alternate Fridays off.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2600 Customer Service center at 703-306-0377.

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If attempts to contact the examiner and the Customer Service Center are unsuccessful, supervisor David Moore can be contacted at 703-308-7452.

Faxes pertaining to this application should be directed to the Tech Center 2600 official fax number, which is 703-872-9306.

Hand-carried or courier-delivered correspondence pertaining to this application should be directed to

US Patent and Trademark Office 220 South 20th Street Crystal Plaza Two, Lobby, Room 1B03 Arlington VA 22202

Stephen M Brinich

Examiner

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smb .

March 3, 2005